

REMARKS/ARGUMENTS

1.) Claim Amendments

Claims 1-30 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the following remarks.

2.) Claim Rejections – 35 U.S.C. § 102(e)

The Examiner rejected claims 1-30 under 35 U.S.C. § 102(e) as being anticipated by Hariguchi (US 6,181,698). The Applicant respectfully traverses the Examiner's rejection and submits the following remarks for the Examiner's favorable reconsideration.

The present application discloses and claims a novel invention wherein a high performance routing system is provided by using a two-tier look-up process. After receiving a message, a destination address for the destination function instance is requested from a local repository. If the returned destination address from the local repository is local, the message is sent to that identified function instance. However, if the destination address is remote, the received message is packaged with the destination address and sent to the function instance. Further in accordance with the teachings of the present invention, whenever the destination address is not found at the local repository, the destination address for the function instance is then requested from a remote repository wherein the requested destination address is then packaged with the message and sent to the intended function instance. Accordingly, the recited steps of first requesting a destination address from a local repository and then, upon determining that the address is not found, requesting it from a remote repository are not anticipated or rendered obvious by the Hariguchi reference. Additionally, nothing in Hariguchi discloses or teaches the steps of packaging the message with the destination address and sending the packaged message to the function instance when the destination address is remote.

The Applicant therefore respectfully submits that Hariguchi merely discloses a high-speed look-up implementation that enables a routing table to look up a routing entry in parallel while further finishing the routing table lookup in deterministic time.

However, nothing in Hariguchi discloses or teaches using a local repository or a remote repository as claimed by independent Claim 1. Similarly, nothing in Hariguchi discloses or teaches a "repository" or a "system level repository" as recited by independent Claim 25. Additionally, other than using IP addresses to determine its "next-hop" or "direct" routing for a particular packet, Hariguchi further fails to disclose or teach the step of "packaging the message with the destination address" whenever the destination address is a remote address.

The Applicant sincerely submits that all independent claims recite similar limitations and are neither anticipated nor rendered obvious by the Hariguchi reference. A Notice of Allowance for all pending independent claims and their respective dependent claims is therefore earnestly requested.

CONCLUSION

In view of the foregoing remarks, the Applicant believes all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for all pending claims.

The Applicant requests a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,

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